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AB487 AB489 AB50Y AB515 AB517 AB539 AB54Y
AB547 AB548 AB549 AB559 AB610 AB613 AB616
AB619 AB62X AB620 AB621 AB622 AB624 AB627
AB630 AB635 AB66X AB661 AB663 AB665 AB667
AB669 AB670 AB675 AB682 AB684 AB686 AB688
AB70X AB702 A743 A745 A78Y A782 A783
U1S S1969

(56) Documents Cited by ISA

GB 2248069 A EP 0037132 A FR 002411244 A
US 5176205 A

Patent Abstracts of Japan, vol. 17, no. 382 (C-1085), 19

Jul 1993 & JP 050065582 A (SHOWA ALUM CORP)

Patent Abstracts of Japan, vol. 15, no. 345 (C-864), 3

Sep 1991 & JP 030134129 A (SHOWA ALUM CORP)

(56) and (58) continued overleaf

(54) Abstract Title

Heat exchanger

(57) A new aluminum alloy containing (in wt.%): 0.2 - 0.5 Fe; 0.7 - 1.2 Si; 1.2 - 1.6 Mn; up to 0.3 Mg; up to 0.5 Cu; up to 0.2 Zn; up to 0.1 Ti is used to make the fins of heat exchangers particularly car radiators. The finstock has high post braze strength and thermal conductivity, and had a sufficiently electronegative potential as to be capable of acting as a sacrificial anode for the heat exchanger tubes. By virtue of the absence of Sn, In and Cr, these heat exchangers can be scrapped and melted for re-use.

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